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**A BOTANICAL TOUR IN THE SOUTH LUSHAI  
HILLS**

**BY**

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suffered from slight fever, and on reaching Fort Lungleh was obliged to lay up for a day or two. So practically nothing was collected on the land part of the journey to Lungleh.

The writer was most hospitably received at Fort Lungleh by Mr. C. B. Drake-Brockman, the Subdivisional officer; and Lieut. Bailey, I.S.C., assistant commandant, the only Europeans there. The writer then stayed at Fort Lungleh up to the 19th April, when circumstances compelled his return to Calcutta. The actual collecting period was thus reduced to about three weeks, of which one week was lost partly owing to very bad weather and a recurrence of the writer's fever.

Had it been possible for the excursion to have taken place earlier in the year, and had more time been available doubtless a better collection would have been got.

The return journey was unfortunate from a weather point of view. The journey from Lungsit to Tuichong was made amid torrents of rain, quite precluding any attempt at collecting. The river journey from Demagiri to Barkhal was also done under the same wretched circumstances, in addition the dug-out running against a rock and partially capsizing in shooting the Utan Chatra rapids, so that what the rain did not wet the river effectually did.

Next day the 24th April was spent at Barkhal, where the rain poured steadily down the

Rangamati

*Gmelina arborea Roxb.* Bamboos formed a very conspicuous feature of the jungle but none were found in flower.

Fort Lungleh itself is situated on a ridge at an elevation of 3,500 feet. In the list, when Fort Lungleh is given as the locality of collection, the altitude is not mentioned, but is to be taken as about 3 000 feet. The approximate altitude of other localities is given in most cases.

For much help in identifying the species of the collection generally the writer is specially indebted to Major Prain. The list of orchids is made up to a small extent from specimens collected by the writer, but mostly from living plants collected by Lieut. Bailey for his own study. Examples of each species in Lieut. Bailey's collection were very generously given by him to the writer, who forwarded them to Mr. Pantling of the Government Cinchona Department. The thanks of the writer are due to Mr. Pantling for kindly identifying those that were sent to him.

In the list the number within brackets, when present, after the name of each species is the field number. The sketch map at the end of the note shows the route and the position of Lungleh. For a map showing the relative position of the Lushai Hills to their surroundings the reader is referred to Pottinger and Prain's note on the  
— of the Kachin Hills, No. 11 of the Records, page 310.

## Phanerogamia.

## DICOTYLEDONES.

*Thalamifloræ.*

## I.—RANUNCULACEÆ.

1. *Clematis grewiaeflora*. *D.C.* (No. 29).  
In fruit.  
Fort Lungleh.  
Distrib. Lower temperate, and Subtropical Himalaya; Kachin hills; Naga hills; Manipur; Burmah.

## II.—ANONACEÆ.

2. *Goniothalamus sesquipedalis*. *Hf. & T.* (No. 95).  
Leaves only.  
Helio hill, Lungleh. Alt. 3,700 feet.  
Distrib. Sikkim to Assam, Khasia hills to Tenasserim.

## III.—MENISPERMACEÆ.

3. *Pericampylus incanus* *Miers* (No. 58).  
In flower.  
Fort Lungleh.  
Distrib. Kachin hills; Eastern Himalaya; Southern China; Indo-China; Malaya.
4. *Stephania rotunda* *Lour.* (No. 217).  
Fort Lungleh.  
Leaves only.  
Distrib. Tropical and Temperate Himalaya; Khasia hills; Pegu; South-West India.
5. *Lophophyllum bicristatum* *Griff.* (No. 43).  
In fruit.  
Fort Lungleh.  
Distrib. Eastern Himalaya; Khasia hills; Manipur; Burmah.

## IV.—CRUCIFERÆ.

- 6 *Nasturtium indicum*, *D.C.* var. *bengalensis* (No. 215).  
Between Ridge Camp and Lungsins.  
Alt. circa 2,500 feet.  
Distrib. of variety. Bengal; Chittagong; Silhet; Khasia Hills;  
Assam.

## V.—CAPPARIDÆ.

7. *Roydsia suaveolens* *Roxb.* (Nos. 41 and 77).  
In flower and fruit.  
Fort Lungleh.  
Distrib. Sikkim; Bhotan; Assam; Chittagong and Burmah.

## VI.—BIXINÆ.

8. *Gynocardia odorata* *Roxb.* (Nos. 70 and 178).  
In fruit.  
Fort Lungleh.  
Distrib. Sikkim; Khasia hills; Chittagong and Burmah.
9. *Hydnocarpus* sp. (No. 71).  
Fort Lungleh

## VII.—PITTOSPORÆ.

10. *Pittosporum floribundum* *W. & A.* (No. 103).  
In fruit.  
Helio Hill Lungleh. Alt. 3,700 feet.  
Distrib. North-Western Himalaya; Sikkim; Khasia Hills;  
Burmah; South India.

## VIII.—GUTTIFERÆ.

11. *Garcinia Xanthochymus* *Hook. f.* (No. 205).  
In fruit.  
Between Tuichong and Demagiri. Alt. circa 1,000 feet.  
Distrib. Sikkim; Khasia hills; Burmah; South India;  
Ceylon; Eastern Peninsula; Andamans.

## IX.—TERNSTROEMIACEÆ.

- 12 *Saurauja punduana* *Wall.* (No. 51).  
In flower.  
Fort Lungleh.  
Distrib. Sikkim; Bhotan; Khasia hills; Burmah.



13. *Schima Wallichii Choisy* (No 33).

In flower and fruit.

Fort Lungleh.

Distrib. North-Western Himalaya; Sikkim, Khasia hills; Assam; Chittagong and Burmah.

#### X.—DIPTEROCARPEÆ.

14. *Dipterocarpus turbinatus Gaertn.*

Huge trees of which only the fallen young fruits were collected.

#### XI.—MALVACEÆ.

15. *Abutilon polyandrum Schlecht* (No. 108).

In fruit.

Fort Lungleh.

Distrib. Tropical Himalaya; South, West, and Central India; Burmah; Java.

16. *Urena lobata Linn. var. tomentosa* (No. 60).

In fruit.

Fort Lungleh.

Distrib. General in the tropics.

17. *Hibiscus pungens Roxb.* (No. 157).

In fruit.

Fifteen miles South-East of Fort Lungleh.

Distrib. North-Western Himalaya; Nepal; Sikkim; Bhotan; Diphla hills; Naga hills; Khasia hills; Assam; Bengal Burmah.

#### XII.—STERCULIACEÆ.

18. *Sterculia colorata Roxb.* (No. 111).

In flower.

Fort Lungleh.

Distrib. India and Indo-China.

19. *Buettneria aspera Colebrookæ* (No. 69).

In fruit.

Fort Lungleh.

Distrib. Nepal; Sikkim; Khasia hills; Assam; Burmah; Andamans.

20. *Buettneria pilosa Roxb.* (No. 200).

In fruit.

Between Fort Lungleh and Ridge Camp. Alt. circa 3,000 feet.

Distrib. Kachin hills; Assam; Chittagong and Burmah.

## XIII.—TILIACEÆ.

21. *Columbia floribunda* Wall. (No. 193).  
 In fruit.  
 Fort Lungleh.  
 Distrib. Assam ; Burmah.
22. *Triumfetta pilosa* Roth. (No. 59).  
 In fruit.  
 Fort Lungleh.  
 Distrib. India ; Indo-China ; China ; Malaya ; Africa.

*Discifloræ.*

## XIV.—MALPHIGIACEÆ.

23. *Hiptage acuminata* Wall. var. (No. 146).  
 In flower and fruit.  
 A tall climber.  
 Fort Lungleh.  
 Distrib. Khasia hills ; Naga hills ; Manipur ; Assam ;  
 Burmah

## XV.—GERANIACEÆ.

24. *Oxalis corniculata* Linn. (No. 216).  
 In fruit.  
 Fort Lungleh.  
 Distrib. Cosmopolitan.

## XVI.—RUTACEÆ.

25. *Toddalia aculeata* Pers. (Nos. 42 and 102).  
 In fruit.  
 Helio hill, Lungleh. Alt. 3,700 feet.  
 Distrib. India ; Indo-China ; China ; Malaya.
26. *Glycosmis pentaphylla* Correa. (No. 80).  
 In flower.  
 Fort Lungleh.  
 Distrib. North-Western Himalaya ; Sikkim ; Khasia hills ;  
 Assam ; Burmah ; Andamans ; South and West India ;  
 Ceylon ; Malaya Peninsula and Archipelago ; Philippines ;  
 Australia.

27. *Micromelum pubescens* *Bl.* (Nos. 20 and 3b).  
In fruit.  
Fort Lungleh.  
Distrib. Nepal ; Sikkim ; Khasia hills ; Naga hills ; Assam ;  
Chittagong and Burmah ; Malaya ; Ceylon ; Java ; China.
28. *Murray exotica* *Linn.* (No. 183).  
In flower.  
Fort Lungleh.  
Distrib. North-Western Himalaya ; Assam ; Chittagong and  
Burmah ; Andamans , South-West India ; Ceylon ; China ;  
Australia ; Pacific Islands.
29. *Clausena suffruticosa* *W. & A.* (No. 46).  
In flower.  
Fort Lungleh.  
Distrib. Khasia hills ; Chittagong and Burmah.
30. *Citrus Medica* *Linn.* (No. 65).  
In flower and fruit. Helio hill, Lungleh. Alt. 3,700 feet.  
Distrib. North-Western Himalaya ; Sikkim ; Khasia hills ;  
Garo hills ; Kachin hills ; Chittagong and Burmah ; Western  
Ghats ; Central India.

## XVII.—BURSERACEÆ.

31. *Garuga pinnata* *Roxb.* (No. 274).  
In fruit.  
Fort Lungleh.  
Distrib. Throughout India ; Assam ; Burmah ; Malaya ;  
Philippines.

## XVIII.—MELIACEÆ.

32. *Dysoxylum binectariferum* *Hook f.* (No. 198).  
In fruit.  
Between Lungleh and Ridge Camp. Alt circa 3,000 feet.  
Distrib. Sikkim ; Khasia hills ; Assam ; Chittagong and  
Burmah ; South India ; Ceylon ; Malacca ; Java.
33. *Dysoxylum procerum* *Hiern.* (No. 177).  
In fruit. Fort Lungleh.  
Distrib. Sikkim ; Bhotan ; Khasia hills ; Assam ; Chittagong  
and Burmah.
34. *Chisocheton paniculatus* *Hiern.* (No. 203).  
In fruit. Fort Lungleh.  
Distrib. Sikkim ; Cachar ; Khasia hills ; Assam ; Chittagong  
and Burmah.

35. *Aglaia Chittagonga* *Miq.* (No. 161).  
In fruit. Fifteen miles South-East of Lunglep. Alt. 3,000 feet.  
Distrib. Khasia hills; Duphla hills; Akha hills; Chittagong; Burmah.

#### XIX.—CELASTRINEÆ.

36. *Microtropis discolor* *Wall.* (No. 159).  
In fruit. Fifteen miles South-East of Fort Lungleh.  
Distrib. North-West Himalayas; Sikkim; Khasia hills; Assam; Manipur; Kachin hills; Burmah.
37. *Celastrus monosperma* *Roxb.* (Nos. 16 and 147).  
In fruit. Fort Lungleh.  
Distrib. Sikkim; Khasia hills; Naga hills; Burmah.
38. *Gymnosporia acuminata* *Hook. f.* (No. 40).  
In fruit. Fort Lungleh.  
Distrib. Sikkim; Khasia hills; Eastern Peninsula; Burmah; Yunnan

#### XX.—AMPELIDEÆ.

39. *Vitis adnata* *Wall.* (No. 220).  
In fruit. Demagiri. Alt. circa 500 feet.  
Distrib. North-Western Himalaya; Sikkim; Khasia hills; Cachar; Assam; Chittagong and Burmah; S. India; Malay Peninsula.
40. *Vitis angustifolia* *Wall.* (No. 221).  
In fruit. Fort Lungleh.  
Distrib. Khasia hills; Kachin hills; Silhét; Assam; Sumatra; Hong Kong.
41. *Vitis capriolata* *Don* (No. 104).  
In fruit. Helio hill, Lungleh. Alt. 3,700 feet.  
Distrib. North-Western Himalaya; Sikkim; Khasia Hills; Assam; Kachin hills; Chittagong and Burmah.
42. *Vitis lanceolaria* *Wall.* (No. 8).  
In fruit. Fort Lungleh.  
Distrib. North-Western Himalaya; Nepal; Sikkim; Khasia hills; Assam; Chittagong and Burmah; Andamans; South and West India; Ceylon; Malaya; Java.
43. *Vitis Japonica* *Thunb.* (No. 219).  
In flower. Demagiri. Alt 500 feet.  
Distrib. Sikkim; Khasia Hills; Naga hills; Manipur; Assam; Chittagong and Burmah; Nicobars; Andamans; South India; Malaya; Java; China.

44. *Leea sambucina Willd.* (No. 85).

In fruit. Fort Lungleh.

Distrib. Common throughout India and Burmah; Ceylon; Malaya; China; Philippines; Australia.

#### XXI.—SAPINDACEÆ.

45. *Acer* sp. (No. 138).

In fruit. Fifteen miles S. E. of Lungleh.

Not matched in Herb. Calcutta. Nearest *Acer isolobum Kurz* but quite distinct.

46. *Turpinia pomifera D.C.* (No. 155).

In fruit. Fort Lungleh.

Distrib. Nepal; Sikkim; Khasia hills; Naga hills; Assam; Kachin hills; Chittagong and Burmah; South and West India, Malaya; Yunnan; China.

#### *Calycifloræ.*

#### XXII.—CONNARACEÆ.

47. *Connarus paniculatus Roxb.* (No. 27).

In fruit. Fort Lungleh.

Distrib. Khasia; Silhet; Assam; Chittagong; Burmah.

#### XXIII.—LEGUMINOSÆ.

48. *Crotalaria ferruginea Grah.* (No. 92).

In fruit. Helio hill; Lungleh. 3,700 feet.

Distrib. Nepal; Sikkim; Khasia hills; Naga hills; Kachin hills; Chittagong and Burmah; Ceylon; Java; Sumatra; Philippines; Formosa.

49. *Desmodium gangeticum D.C.* (No. 224).

In fruit. Fort Lungleh.

Distrib. Universal in the tropics.

50. *Erythrina stricta Roxb.* (No. 112).

In flower and fruit. Fort Lungleh.

Distrib. India from Rajputana to Orissa; Assam; Burmah and Chittagong.

51. *Mucuna imbricata D.C.* (No. 225).

In flower. Fort Lungleh.

Distrib. North-Western Himalaya; Sikkim; Silhet; Assam; Manipur; Burmah; Andamans.

52. *Dunbaria podocarpa Kurz.* (No. 192).  
In flower and fruit. Fort Lungleh.  
Distrib. Burmah.
53. *Flemingia stricta Roxb.* (No. 227).  
In fruit. Fort Lungleh.  
Distrib. North-Western Himalaya; Sikkim; Oude; South  
and Central India; Assam; Chittagong and Burmah.
54. *Dalbergia volubilis Roxb.* (No. 196).  
In fruit. Fort Lungleh.  
Distrib. Sikkim Terai; Assam; Chittagong and Burmah;  
Andamans; Oude; Bihar; Central, South, and West India.
55. *Derris monticola Prain.* (No. 23).  
In flower. Fort Lungleh.  
Is *Milletia monticola Kurz.*  
Distrib. Burmah.
56. *Derris thyrsoflora Bth.* (No. 32).  
In flower. Fort Lungleh.  
Distrib. Eastern Himalaya; Khasia Hills; Malaya.
57. *Cassia timorensis D.C.* (No. 226).  
In fruit. Fort Lungleh.  
Distrib. Chittagong and Burmah; Malaya; Western India;  
Ceylon; Philippines; Australia.
58. *Bauhinia rufa Grak.* (No. 136).  
In fruit. Fifteen miles S. E. of Lungleh.  
Distrib. Assam; Burmah.
59. *Bauhinia glauca Wall.*  
In fruit. Helio hill, Lungleh. Alt. 3,700 feet.  
Distrib. Burma; Malaya; China.  
A decided northward extension of this species.
60. *Saraca indica Linn.* (No. 213).  
In flower. Between Ridge Camp and Lungsin. Alt. 2,000—  
2,500 feet.  
Distrib. Central and Eastern Himalaya; Khasia hills;  
Assam; Chittagong and Burmah; South and West India;  
Ceylon; Malaya.
61. *Entada Pursætha D.C.* (No. 90).  
*Entada scandens* of the Flora of British India.  
In flower. Helio hill, Lungleh. Alt. 3,700 feet.  
Distrib. Nepal; Sikkim; Khasia hills; Naga hills; Manipur;  
Assam; Chittagong and Burmah; Andamans; Malaya;  
South and West India; Ceylon.

62. *Acacia Intsia Willd.* (No. 79). Var. *oxyphylla*. In fruit Fort Lungleh.  
Distrib. Tropical Himalaya; South and West India; Assam; Chittagong and Burmah; Malaya; Ceylon.
63. *Acacia pennata Willd.* var. *arrophula* (No. 106).  
In fruit. Helio hill, Lungleh. Alt. 3,700 feet.  
Distrib. Nepal; Sikkim; Khasia hills; Assam; Chittagong and Burmah; Andamans; Malaya; Central India.
64. *Acacia pruinescens Kurz.* (No. 121).  
In fruit. Fort Lungleh.  
Distrib. Kachin hills; Upper Assam.
65. *Albizzia stipulata Boiv.* (No. 124).  
In flower. Fort Lungleh.  
Distrib. North-West Himalaya; Nepal; Sikkim; Khasia hills; Naga hills; Chittagong and Burmah; Andamans; South and West India; Ceylon; Malaya; Borneo; Java.

## XXIV.—ROSACEÆ.

66. *Rubus moluccanus Linn.* (No. 21).  
In flower. Fort Lungleh.  
Distrib. Nepal; Sikkim; Khasia hills; Assam; Chin hills; South and West India and Ceylon; Manipur; Burmah; Malaya.
67. *Rubus ellipticus Smith* (No. 62).  
In fruit. Fort Lungleh.  
Distrib. North-West Himalaya; Nepal; Sikkim; Khasia hills; Kachin hills; Manipur; Assam; Burmah; Yunnan; South-West India; Ceylon.
68. *Rubus lasiocarpus Smith* (No. 58).  
In flower. Fort Lungleh.  
Distrib. North-West Himalaya; Sikkim; Naga hills; Assam; Chin hills; Burmah; South and West India; Ceylon; Java.
69. *Rubus rosæfolius Smith* (Nos. 30 and 51).  
In fruit. Fort Lungleh.  
Distrib. North-West Himalaya; Sikkim; Khasia hills; Naga hills; Assam; Burmah; Java.
70. *Eriobotrya bengalensis Hook. f.* (No. 155.)  
In fruit. Fifteen miles South-East of Lungleh.  
Distrib. Sikkim; Khasia hills; Manipur; Chittagong and Burmah; Malacca.

## XXV.—RHIZOPHOREÆ.

71. *Caralia integerrima* DC. (No. 57).  
 In flower Fort Lungleh.  
 Distrib. Sikkim Terai; Bengal; Silhet; Cachar; Khasia hills; Manipur; Assam; Chittagong and Burmah; Andamans; South-West India; Ceylon; Malaya.

## XXVI.—COMBRETACEÆ.

72. *Calycopteris floribunda* Lamk. (No. —).  
 In fruit. Demagiri. Alt. 500 feet.  
 Distrib. Assam; Chittagong and Burma; Andamans; South and West India; Malaya.
73. *Anogeissus acuminata* Wall. (No. 109) var. *lanceolata*.  
 In fruit. Fort Lungleh.  
 Distrib. Chittagong and Burmah.
74. *Combretum squamosum* Roxb. (Nos. 110 and 111).  
 In fruit. Fort Lungleh.  
 Distrib. Nepal; Sikkim; Khasia hills; Assam; Chittagong and Burmah; Malay; Philippines.
75. *Combretum dasystachyum* Kurz (No. 187).  
 In flower. Fort Lungleh.  
 Distrib. Khasia hills; Cachar; Silhet; Chittagong and Burmah.

## XXVII.—MYRTACEÆ.

76. *Eugenia polypetala* Wight. (No. —).  
 In flower. Demagiri. Alt 500 feet.  
 Distrib.

## XXVIII.—MELASTOMACEÆ.

77. *Melastoma normale* Don. (No. 73).  
 In flower. Fort Lungleh.  
 Distrib. Nepal; Sikkim; Bhotan; Khasia hills; Naga hills; Kachin hills; Burmah; Indo-China.
78. *Sonerila maculata* Roxb. (No. 259).  
 Leaf specimen. Fort Lungleh.  
 Distrib. Nepal; Khasia hills; Assam; Kachin hills; Burmah.
79. *Medinilla rubicunda* Bl. (No. 25).  
 In fruit. Fort Lungleh.  
 Distrib. Sikkim; Khasia hills; Assam; Malaya.



## XXIX.—LYTHRACEÆ.

80. *Duabunga sonneratoides* *Ham.* (No. 72).  
 In flower and fruit. Fort Lungleh.  
 Distrib. Nepal; Sikkim; Khasia hills; Assam; Chittagong  
 and Burmah; Andamans; Malaya.

## XXX.—CUCURBITACEÆ.

81. *Hodgsonia heteroclita* *Hook. f.* (No. 101).  
 In fruit. Helio hill, Lungleh. Alt. 3,700 feet.  
 Distrib. Sikkim; Khasia hills; Assam; Chittagong and  
 Burmah; Malaya.
82. *Thladiantha calcarata* *C. B. Clarke* (No. 210).  
 In flower. Between Ridge camp and Lungsing. Alt. 2,000 feet.  
 Distrib. Sikkim; Khasia hills; Assam; Chittagong and  
 Burmah; Malaya; China.

## XXXI.—BEGONIACEÆ.

83. *Begonia barbata* *Wall.* (Nos. 232 and 233).  
 In flower and fruit. Fort Lungleh.  
 Distrib. Assam; Burmah; Chittagong.

## XXXII.—UMBELLIFERÆ.

84. *Hydrocotyle javanica* *Thunb.* (No. 234).  
 In fruit. Between Tuichong and Demagiri. Alt. 500-1,000  
 feet.  
 Distrib. Throughout South-Eastern Asia and in Eastern  
 Africa.

## XXXIII.—ARALIACEÆ.

85. *Heptapleurum venulosum* *Seem* (No. 175), var. *macrophylla*.  
 In fruit. Fort Lungleh.  
 Distrib. Throughout tropical and subtropical India; Malaya;  
 Australia.
86. *Trevesia palmata* *Vis.* (No. 222).  
 In fruit. Demagiri. Alt. 500 feet.  
 Distrib. Nepal; Sikkim; Khasia hills; Assam; Chittagong  
 and Burmah; Malaya.
87. *Brassaiopsis speciosa* *Decne. and Planch.* (No. 156).  
 In fruit. Fifteen miles South-East of Lungleh.  
 Distrib. Nepal; Sikkim; Khasia hills; Naga hills; Assam;  
 Chittagong and Burmah; Java.

*Corollifloræ.*

## XXXIV.—RUBIACEÆ.

88. *Uncaria sessilifructus Roxb.* (Nos. 18 and 223).  
In fruit. Fort Lungleh.  
Distrib. Nepal; Sikkim; Bhotan; Khasia hills; Assam;  
Kachin hills; Chittagong and Burmah; Indo-China.
89. *Uncaria homomalla Miq.* (No. 28).  
In flower. Fort Lungleh.  
Distrib. Khasia hills; Sumatra.
90. *Wendlandia glabrata D.C.* (No. 34).  
In flower. Fort Lungleh.  
Distrib. Khasia hills; Naga hills; Manipur; Burmah;  
Yunnan; South India; Malaya; Formosa.
91. *Hedyotis scandens Roxb.* (No. 48).  
In fruit. Fort Lungleh.  
Distrib. Nepal; Sikkim; Khasia hills; Akha hills; Kachin  
hills; Chittagong.
92. *Ophiorrhiza Harrissiana Heyne.*, var. *argentea.* (No. 182).  
In flower. Fort Lungleh.  
Distrib. Nepal; Sikkim; Khasia hills; Silhet; Kachin hills  
Chittagong; South and West India; Ceylon.
93. *Mussænda glabra Vahl.* (No. 186).  
In flower. Fort Lungleh.  
Distrib. Nepal; Sikkim; Khasia hills; Manipur; Cachar  
Assam; Chittagong and Burmah; Malaya.
94. *Mussænda macrophylla Wall.* (No. 277).  
In flower. Fort Lungleh.  
Distrib. Nepal; Sikkim; Khasia; Burma; Andamans; Malaya.
95. *Adenosacme longifolia Wall.* (No. 150).  
In fruit. Fifteen miles South-East of Lungleh.  
Distrib. North-Western Himalaya; Sikkim; Khasia hills;  
Duphla hills; Cachar; Manipur; Chittagong and Burmah;  
Malaya.
96. *Randia longiflora Lamk.* (No. 235).  
In flower. Between Ridge camp and Lungsin. Alt. circa  
2,500 feet.  
Distrib. Khasia hills; Silhet; Assam; Chittagong and Burmah;  
Andamans; Malaya.
97. *Ixora subsessilis Wall.* (No. 145).  
In fruit. Fifteen miles South-East of Lungleh.  
Distrib. Assam; Khasia hills; Naga hills; Manipur.

98. *Ixora villosa Roxb.* (No. 236).  
In flower. Fort Lungleh.  
Distrib. Sikkim; Khasia hills; Silhet; Cachar; Assam;  
Burmah; Malaya.
99. *Pavetta indica Linn.* (Nos. 82 and 176).  
In flower. Fort Lungleh.  
Distrib. Throughout India, Ceylon and Malaya; South  
China; North Australia.
100. *Morinda angustifolia Roxb.* (No. 39).  
In flower. Fort Lungleh.  
Distrib. Nepal; Sikkim; Khasia hills; Assam; Chittagong  
and Burmah.
101. *Psychotria calocarpa Kurz* (No. 169).  
In fruit.\* Fifteen miles South-East of Lungleh.  
Distrib. Nepal; Sikkim; Khasia hills; Cachar; Assam;  
Kachin hills; Chittagong and Burmah.

## XXXV.—COMPOSITÆ.

102. *Vernonia blanda D.C.* (No. 13).  
In fruit. Fort Lungleh.  
Distrib. Khasia hills; Manipur; Burmah.
103. *Ageratum conyzoides Linn.* (No. 165).  
In fruit. Fifteen miles South-East of Lungleh.  
Distrib. Throughout India.
104. *Conyza stricta Willd.* (No. 88).  
In flower. Helio hill, Lungleh. Alt. 3,700 feet.  
Distrib. North-Western Himalaya; Sikkim; Khasia hills;  
Assam; Chittagong and Burmah; South and Western  
India; East Africa.
105. *Blumea lacera D.C.* (No. 89).  
In fruit. Helio hill, Lungleh. Alt. 3,700 feet.  
Distrib. Throughout India and Ceylon; Malaya; China;  
Tropical Africa.
106. *Blumea densiflora D.C.* (No. 98).  
In fruit. Helio hill, Lungleh. Alt. 3,700 feet.  
Distrib. Sikkim; Khasia hills; Naga hills; Duphla hills  
Burmah; Yunnan and Malaya.
107. *Blumea balsamifera D.C.* (No.—).  
In flower. Bank of Karnaphuli river. Alt. 500 feet.  
Distrib. Nepal; Sikkim; Khasia hills; Kachin hills;  
Assam; Burmah; China; Indo-China; Malaya.

108. *Laggera pterodonta* Bth. (No. 151).  
In fruit. Fifteen miles South-East of Lungleh.  
Distrib. North-Western Himalaya; Sikkim; Khasia hills;  
Manipur; Burmah; South and Western India; Tropical  
Africa.
109. *Gnaphalium luteo-album* Linn. (No.—).  
In flower. Fifteen miles South-East of Lungleh.  
Distrib. Throughout the tropics.
110. *Siegesbeckia orientalis* Linn. (No. 162).  
In fruit. Fifteen miles South-East of Lungleh.  
Distrib. Cosmopolitan in the tropics.
111. *Bidens pilosa* Linn. (No. 86).  
In flower. Helio hill, near Lungleh. Alt. 3,700 feet.  
Distrib. General throughout the tropics.

#### XXXVI.—CAMPANULACEÆ.

112. *Campanumœa celebica* Blume (No. 202).  
In flower and fruit. Between Lungleh and Ridge camp.  
Alt. 3,000 feet.  
Distrib. Sikkim; Chittagong; Burmah and Malaya.

#### XXXVII.—MYRSINEÆ.

113. *Maesa indica* Wall. (No. 2).  
In flower and fruit. Fort Lungleh.  
Distrib. Throughout India and Ceylon; Malaya; South  
China.
114. *Maesa paniculata* A. D.C. (No. 22).  
In flower. Fort Lungleh.  
Distrib. Silhet; Assam; Burmah.
115. *Myrsine semi-serrata* Wall. (No. 93).  
In fruit. Helio hill, Lungleh. Alt. 3,700 feet.  
Distrib. North-Western Himalaya; Nepal; Sikkim;  
Khasia hills; Manipur; Burmah.
116. *Embelia Ribes* Burm. (No. 122).  
In fruit. Fort Lungleh.  
Distrib. Throughout India and Ceylon, Malaya; South  
China.
117. *Ardisia paniculata* Roxb. (No. 66).  
In flower. Demagiri. Alt. 1,000 feet.  
Distrib. Khasia hills; Assam; Chittagong.

118. *Ardisia colorata Roxb.* (No. 237).  
 In fruit. Between Ridge camp and Lungsin. Alt. 2,500 feet.  
 Distrib. Assam; Cachar; Chittagong; Burmah and Malaya.
119. *Antistrophe oxyantha A.D.C.* (No. 143).  
 In fruit. Fifteen miles South-East of Lungleh.  
 Distrib. Sikkim; Khasia hills; Garo hills and Silhet.

## XXXVIII.—STYRACEÆ.

120. *Symplocos* sp. near Hookerl, *C. B. C.* (No. 239).  
 In fruit. Fifteen miles South-East of Lungleh.  
 Distrib. Collected by Gallatly in Tenasserim in 1877.
121. *Styrax serrulatum Roxb.* Var. *agrestis.* (No. 238).  
 In bud. Fifteen miles South-East of Lungleh.  
 Distrib. Sikkim; Khasia hills; Chittagong; Burmah; South India.

## XXXIX.—OLEACEÆ.

122. *Jasminum coarctatum Roxb.* (No. 275).  
 In flower. Fort Lungleh.  
 Distrib. Khasia hills; Duple hills; Assam; Chittagong; Burmah.
123. *Jasminum anastomosans Wall.* (No. 49).  
 In flower. Fort Lungleh  
 Distrib. Bhotan; Khasia hills; Naga hills; Cachar; Silhet; Manipur; Kachin hills; Burmah.
124. *Jasminum Listeri King. Mss. in Herb. Calc.* (No. 78).  
 In flower. Fort Lungleh.  
 Collected by Lister in Chittagong hill tracts in 1876.  
 Scandent shrub, branches pale brown glabrous, branchlets faintly pubescent. Leaves opposite, simple, petiole  $\frac{1}{4}$ ", lamina 3" to 5" by  $1\frac{1}{4}$ ", lanceolate acuminate, base cuneate, glabrous above, faintly pubescent on nerves beneath, main nerves 4 to 5, prominent beneath. Cymes rather lax, axillary, capitate, pubescent, much shorter than the leaves, 5 or 6 flowers in each cyme. Peduncle  $\frac{5}{8}$ ", pedicels  $\frac{1}{8}$ ". Bracts subulate, minute, 2 to 3 pairs, pedicels and calyx slightly villose, calyx teeth subulate, faintly villous  $\frac{3}{8}$ ". corolla white, lobes six, tube  $\frac{3}{8}$ ", lobes  $\frac{7}{8}$ ", Stamens two, in the throat of the corolla, on very short filaments, anthers oblong, aristate. Ovary 2-celled, style cylindric, stigma, bifid, lobes linear, ovules 2 in each cell.

142. *Lindenbergia philippensis Benth.* (No. 244).  
In fruit. Demagiri. Alt. 1,000 feet.  
Distrib. Naga hills; Shan hills; Chittagong; Burmah;  
Indo-China; China.
143. *Torenia vagans Roxb.* (No. 243).  
In flower. Fort Lungleh.  
Distrib. Nepal; Sikkim; Khasia hills; Assam; Kachin  
hills; Chittagong.

#### XLVII.—GESNERACEÆ.

144. *Aeschynanthus* sp. (No. 130).  
In fruit. Sect. *Haplotrichium*.  
Fifteen miles South-East of Lungleh. Not matched in Herb.  
Calc.

#### XLVIII.—BIGNONIACEÆ.

145. *Oroxylum indicum Vent.* (No. —).  
Only fruit gathered. Fort Lungleh.  
Distrib. Throughout India; Indo-China; Malaya.
146. *Stereospermum glandulosum Mig.* (No. 153).  
In flower and young fruit. Fifteen miles South-East of  
Lungleh.  
Distrib. Burmah; Malaya.

#### XLIX.—ACANTHACEÆ.

147. *Thunbergia grandiflora Roxb.* (No. 211).  
In flower. Between Ridge camp and Lungsins. Alt. 2,500  
feet.  
Distrib. East Bengal; Assam; Manipur; Kachin hills; Chit-  
tagong hill tracts.
148. *Hemigraphis hirta T. And.* (No. 251).  
In flower and fruit. Fort Lungleh.  
Distrib. North-Western Provinces; Bengal; Central Prov-  
inces; Pegu.
149. *Acanthus leucostachyus Wall.* (No. 141).  
In flower. Fifteen miles South-East of Lungleh.  
Distrib. Khasia hills; Duphla hills; Cachar; Manipur;  
Kachin hills; Chittagong hill tracts.

150. *Eranthemum album* *Nees* (No. 64).  
In flower. Fort Lungleh.  
Distrib. Jaboca Naga hills; Assam; Chittagong; Burmah;  
Andamans; Nicobars.
151. *Phlogacanthus tubiflorus* *Nees* (No. 6).  
In fruit. Fort Lungleh.  
Distrib. Khasia hills; Diphla hills; Manipur; Kachin hills.
152. *Phlogacanthus guttatus* *Nees* (No. 190).  
In fruit. Fort Lungleh.  
Distrib. Khasia hills; Jaboca Naga hills; Chittagong hill  
tracts.
153. *Lepidagathis hyalina* *Nees* (No. 250).  
In fruit. Demagiri. Alt. 1,000 feet.  
Distrib. Throughout North India; Assam; Chittagong;  
Burmah; Indo-China; China.
154. *Rhinacanthus calcaratus* *Nees* (No. 11).  
In flower. Fort Lungleh.  
Distrib. Khasia hills; Cachar; Chittagong hill tracts.
155. *Rungia parviflora* *Nees* var. *muralis*. (No. 134).  
In flower. Fifteen miles South-East of Lungleh.  
Distrib. of the variety. South India; Chittagong hill tracts.
156. *Dicliptera Roxburghiana* *Nees* var. *linearis* *Kurz* in Herb.  
Calc. (No. 135).  
In flower. Fifteen miles South-East of Lungleh.  
Collected by *Kurz* in Pegu.
157. *Peristrophe tera* *C. B. Clarke*. (No. —).  
In flower. Helio hill, Lungleh. Alt. 3,700 feet.  
Distrib. Bhotan; Assam; Khasia.

## L.—VERBENACEÆ.

158. *Gmelina arborea* *Roxb.* (No. 248).  
In flower. Fort Lungleh.  
Distrib. South-Eastern Asia.
159. *Clerodendron infortunatum* *Gærtn.* (No. 107).  
In flower and fruit. Fort Lungleh.  
Distrib. India; Indo-China; Malaya.
160. *Caryopteris paniculata* *C. B. Clarke*. (No. 148).  
In fruit. Fifteen miles South-East of Lungleh.  
Distrib. Nepal; Sikkim; Mishmi hills; Kachin hills;  
Upper Burmah; Yunnan.

## LI.—LABIATÆ.

161. *Pogostemon parviflorus Bth.* (No. 10).  
 In fruit. Fort Lungleh.  
 Distrib. North-West Himalaya ; Sikkim ; Bhotan ; Khasia hills ; Silhet ; Assam ; Chittagong ; Burmah ; Andamans ; South and West India.
162. *Pogostemon glaber Bth.* (No. 247).  
 In fruit. Fifteen miles South-East of Lungleh.  
 Distrib. Nepal ; Sikkim ; Khasia hills ; Kachin hills ; Upper Burmah.
163. *Pogostemon fraternus Mig.* (No. 245).  
 In fruit. Fort Lungleh.  
 Distrib. Sikkim ; Khasia hills ; Naga hills ; Manipur ; Upper Burmah ; Java.
164. *Ajuga macrosperma Wall.* var. *typica.* (No. 246).  
 In flower. Fort Lungleh.  
 Distrib. of the variety. Khasia hills ; Naga hills ; Assam ; Chittagong and Burmah.

## LII.—PLANTAGINEÆ.

165. *Plantago major Linn.* (No. 63).  
 In fruit. Fort Lungleh.  
 Distrib. Throughout India in hilly regions ; Ceylon ; Malaya ; Afghanistan and westwards.

*Incompletæ.*

## LIII.—AMARANTACEÆ.

166. *Amarantus viridis Linn.* (No. 268).  
 In flower. Fort Lungleh.  
 Distrib. Throughout tropical countries.
167. *Aerua scandens Wall.* (No. 137).  
 In fruit. Fifteen miles South-East of Lungleh.  
 Distrib. Throughout the tropics of the Old World.

## LIV.—POLYGONACEÆ.

168. *Polygonum alatum Ham.* (No. 163).  
 In fruit. Fifteen miles South-East of Lungleh.  
 Distrib. India ; Indo-China ; Japan ; Abyssinia.



169. *Polygonum chinense* *Linn.* (No. —).

In fruit. Fort Lungleh.

Distrib. South-Eastern Asia.

#### LV.—ARISTOLOCHIACEÆ.

170. *Aristolochia* sp. (No. 24).

In flower.

Like Wall. cat. 2705 D in Herb. Calc. but with tomentose veins.

Near Fort Lungleh.

#### LVI.—PIPERACEÆ.

171. *Piper peepuloides* *Roxb.* (No. 94).

In flower. Fifteen miles. South-East of Lungleh.

Distrib. Nepal; Sikkim; Bhotan; Assam; Silhet; Khasia hills; Chittagong.

172. *Piper bœhmeriæfolium* *Wall.* (No. 47).

In flower. Fort Lungleh.

Distrib. Sikkim; Bhotan; Assam; Silhet; Khasia hills; Burmah.

#### LVII.—MYRISTICÆ.

173. *Myristica longifolia* *Wall.* (Nos. 114 and 152).

In fruit. Near Lungleh.

Distrib. Sikkim; Assam; Silhet; Khasia hills; Chittagong; Burmah.

#### LVIII.—LAURINEÆ.

174. *Beilschmiedia assamica* *Meisn.* (No. 171).

In fruit. Fifteen miles South-East of Lungleh.

Distrib. Sikkim; Khasia hills; Manipur; Assam.

175. *Cinnamomum Tamala* *Fr. Nees* (No. 47).

In flower and fruit. Fort Lungleh.

Distrib. Tropical and Sub-Tropical Himalaya; Silhet; Khasia; Assam.

176. *Litsæa Salicifolia* *Hook. f.* (Nos. 3 and 12) var. *attenuata*.

In flower. Fort Lungleh.

Distrib. of the variety. Silhet; Assam.

177. *Alseodaphne petiolaris*. *Hook. f.* (No. 75).

In fruit. Fort Lungleh.

Distrib. Assam; Cachar; Burmah.

## LIX.—ELEAGNACEÆ.

178. *Elæagnus latifolia* Linn. (No. 37).  
 In fruit. Fort Lungleh.  
 Distrib. North-West Himalaya; Sikkim; Bhotan; Mishmi hills; Khasia hills; Chittagong; Burmah; South India; Ceylon; Malaya; Indo-China; China.

## LX.—EUPHORBIACEÆ.

179. *Euphorbia pilulifera* Linn. (No. 257).  
 In fruit and flower. Fort Lungleh.  
 Distrib. Throughout the tropics.
180. *Bridelia stipularis* Bl. (No. 105).  
 In fruit. Fort Lungleh.  
 Distrib. Throughout India; Ceylon; Malaya; Philippines  
 Tropical Africa.
181. *Phyllanthus reticulatus* Poiv. (No. 191).  
 In flower. Fort Lungleh.  
 Distrib. Throughout India and Ceylon; Malaya; China;  
 Tropical Africa.
182. *Breynia patens* Benth. (No. 276).  
 Female in flower and fruit. Lungleh and Lungsins. Alt. 2,000 to 3,000 feet.  
 Distrib. Nepal; Sikkim; Mishmi hills; Khasia hills; Silhet; Manipur; Chittagong; Burmah; South India; Ceylon.
183. *Cyclostemon assamicus* Hook. f. (No. 182).  
 In fruit. Fort Lungleh.  
 Distrib. North-West Himalaya; Sikkim; Khasia hills; Assam; Sunderbuns; Chittagong; Arracan; Andamans.
184. *Aporosa oblonga* Muell. Arg. (No. 194).  
 In fruit. Fort Lungleh.  
 Distrib. Burmah; Chittagong.
185. *Baccaurea sapida* Muell. Arg. (No. 116).  
 In flower. Fort Lungleh.  
 Distrib. Sikkim; Silhet; Khasia hills; Assam; Burmah; Andamans; Malaya.
186. *Antidesma Buniis* Spreng. (No. 170).  
 In fruit. Fifteen miles South-East of Lungleh.  
 Distrib. Throughout India and Malaya.

187. *Croton oblongifolius Roxb.* (No. 38).  
In fruit. Fort Lungleh.  
Distrib. India; Assam; Burmah.
188. *Alchornea rugosa Muell. Arg.* (No. 128).  
In flower. Fifteen miles South-East of Lungleh.  
Distrib. Burmah; Andamans; Malaya; China.
189. *Mallotus Roxburghiana Muell. Arg.* (No. 260).  
In flower. Fort Lungleh.  
Distrib. Sikkim; Khasia hills; Silhet; Manipur; Assam;  
Chittagong; Burmah.
190. *Ricinus communis Linn.* (No. 125).  
In fruit. Fort Lungleh.  
Distrib. Throughout the tropics.
191. *Homonoia riparia Lour.* (No. 258).  
In flower. Demagiri. Alt. 200 feet.  
Distrib. India, Indo-China; Malaya; China.
192. *Sapium insigne Bth.* (No. 35).  
In fruit. Fort Lungleh.  
Distrib. North-West Himalaya; Nepal; East Himalaya;  
Chittagong; Burmah.

## LXI.—URTICACEÆ.

193. *Ficus subulata Bl.* (Nos. 212 and 254).  
Between Ridge Camp and Lungsins. Alt. 2,000 feet.  
Distrib. From Chittagong southwards to the Malayan  
Archipelago; China.
194. *Ficus urophylla Wall.* (No. 14).  
Fort Lungleh.  
Distrib. Assam; Khasia; Chittagong; Burmah; Malaya.
195. *Ficus retusa Linn.* var. *nitida Thunb.* (No. 123).  
Fort Lungleh.  
Distrib. of the variety. Eastern Himalaya; Assam; Khasia  
hills; Burmah; Malaya.
196. *Ficus hispida Linn. f.* (No. 253).  
Banks of the Karnaphuli river. Alt. 100-200 feet.  
Distrib. Throughout India; Malaya; Hong Kong;  
Australia.

197. *Ficus cunia* *Ham.* (No. 197).  
Between Lungleh and Ridge Camp. Alt. 3,000 feet.  
Distrib. Sub-Himalayan forests; Central India; Assam;  
Khasia; Chittagong; Burmah; Malaya.
198. *Ficus hirta* *Vahl.* (No. 142).  
Fifteen miles South-East of Lungleh.  
Distrib. Eastern Himalaya; Assam; Burmah; Malaya;  
China.
199. *Ficus pomifera* *Wall.* (No. 129).  
Fifteen miles South-East of Lungleh. Alt. 3,000 feet.  
Distrib. Sikkim; Assam; Chittagong; Burmah; Malaya.
200. *Allæanthus Kurzii* *Hook. f.* (No. 53).  
Male flowers. Fort Lungleh.  
Distrib. Assam and Burmah.
201. *Cudrania fruticosa* *Wight ex. Kurz* For. Flor. (No. 19).  
In fruit. Fort Lungleh.  
Distrib. Khasia hills; Kachin hills; Chittagong; Burmah.
202. *Artocarpus Lakoocha* *Roxb.* (No. 201).  
~~Between Lungleh and Ridge Camp. Alt. 2,000-3,000 feet.~~  
Distrib. ~~Tropical Himalaya; Burmah; South India; Malaya.~~
203. *Conocephalus suaveolens* *Bl.* (No. 256).  
In flower. Fort Lungleh.  
Distrib. Sikkim; Khasia hills; Kachin hills; Assam;  
Burmah; Malaya.
204. *Girardinia heterophylla* *Dcne.* (Nos. 5 and 7).  
In fruit. Fort Lungleh.  
Distrib. North-West Himalaya; Sikkim; Assam; Silhet;  
Burmah; Central and South India; Ceylon; Java.
205. *Elatostema sesquifolium* *Hassk.* (No. 55).  
In flower. Fort Lungleh.  
Distrib. Khasia hills; Assam; Chittagong; Burmah;  
Andamans; Nicobars; Java.
206. *Boehmeria malabarica* *Wedd.* (Nos. 4 and 54).  
In flower. Fort Lungleh.  
Distrib. Sikkim; Mishmi hills; Khasia hills; Chittagong;  
Burmah; South and West India; Ceylon; Java.
207. *Sarcochlamys pulcherrima* *Gaud.* (No. 131).  
Leaf specimens only. Fifteen miles South-East of Lungleh.  
Distrib. North-West Himalaya; Bhotan; Assam; Khasia  
hills; Silhet; Cachar; Chittagong; Burmah.

## LXII.—GNETACEÆ.

208. *Gnetum Gnemon* *Linn.* (Nos. 269 and 270).  
 In flower and fruit. Fort Lungleh.  
 Distrib. Khasia hills; Kachin hills; Manipur; Malaya.

## MONOCOTYLEDONES.

## LXIII.—ORCHIDACEÆ.

Nearly all the species of orchids in the following list were contributed by Lieut. Bailey from his collection, and consequently bear no field number. All were collected in the Fort Lungleh district, but the exact localities and altitudes had not been noted :—

209. *Oberonia iridifolia* *Lindl.*  
 Distrib. India; Indo-China.
210. *Liparis longipes* *Lindl.*  
 Distrib. India; Indo-China; China; Malaya.
211. *Dendrobium cariniferum* *Reichb. f.*  
 Distrib. Naga hills; Manipur; Shan hills; Kachin hills.
212. *Dendrobium formosum* *Roxb.*  
 Distrib. Nepal; Sikkim; ~~Bhotan~~; Khasia hills; Assam  
~~Burmah; Andamans.~~
213. *Dendrobium anceps* *Swartz.*  
 Distrib. Sikkim; Bengal; Assam; Burmah.
214. *Dendrobium bicameratum* *Lindl.*  
 Distrib. Sikkim; Khasia hills; Behar; Burmah.
215. *Dendrobium cretaceum* *Lindl.*  
 Distrib. Western Himalaya; Khasia hills; Kachin hills;  
 Burmah.
216. *Dendrobium heterocarpum* *Wall.*  
 Distrib. Nepal; Sikkim; Khasia hills; Assam; Burmah;  
 South India; Ceylon.
217. *Dendrobium transparens* *Wall.*  
 Distrib. North-Western Himalaya; Sikkim; Khasia hills;  
 Garo hills; Assam; Kachin hills.
218. *Dendrobium crepidatum* *Lindl.*  
 Distrib. Khasia hills; Assam; Burmah; West India.
219. *Dendrobium pendulum* *Roxb.*  
 Distrib. Chittagong; Burmah; Siam.

220. *Dendrobium Devonianum* *Post.*  
Distrib. Bhotan; Khasia Hills; Naga Hills; Assam; Burmah.
221. *Dendrobium fimbriatum* *Hook.* var. *oculata.*  
Distrib. of species. North-West Himalaya; Sikkim; Khasia hills; Manipur Burmah.
222. *Dendrobium Gibsoni* *Lindl.*  
Distrib. Sikkim; Assam; Khasia hills; Burmah.
223. *Dendrobium chrysanthum* *Wall.*  
Distrib. Nepal; Sikkim; Khasia hills; Shan hills; Kachin hills.
224. *Dendrobium ocbreatum* *Lindl.* (No. 214).  
In flower. Fort Lungleh.  
Distrib. Naga hills; Khasia hills; Chittagong.
225. *Dendrobium aggregatum* *Roxb.*  
Distrib. Assam; Burmah.
226. *Dendrobium chrysotoxum* *Lindl.* (No. 197).  
In flower. Fort Lungleh.  
Distrib. Burmah; Assam.
227. *Bulbophyllum Lobbii* *Lindl.* (No. 179).  
In flower. Fort Lungleh.  
Distrib. Burmah; Siam; Java.
228. *Cirrhopetalum picturatum* *G. Lodd.*  
Distrib. Burmah.
229. *Eria convallarioides* *Lindl.*  
Distrib. North-Western Himalaya; Sikkim; Khasia hills; Naga hills; Burmah.
230. *Eria pannea* *Lindl.*  
Distrib. Sikkim; Khasia hills; Kachin hills; Burmah; Malaya.
231. *Eria bambusifolia.* *Lindl.*  
Distrib. Sikkim; Khasia hills; Kachin hills; Southern India.
232. *Eria tomentosa* *Hook. f.* (No. 228).  
In flower. Fort Lungleh.  
Distrib. Silhet; Khasia hills; Chittagong; Burmah.
233. *Phajus maculatus* *Lindl.*  
Distrib. Nepal; Sikkim; Khasia hills; Indo-China; China; Japan.
234. *Phajus albus* *Lindl.*  
Distrib. North-West Himalaya; Nepal; Sikkim; Khasia hills; Kachin hills; Burmah; Southern India; Indo-China.

235. *Cœlogyne Gardneriana Lindl.*  
Distrib. Himalaya ; Assam hills ; Karen hills.
236. *Cœlogyne graminifolia Par. and Reichb. f.*  
Distrib. Assam ; Tenasserim ; Kachin hills.
237. *Cœlogyne fuscescens Lindl.*  
Distrib. Nepal ; Sikkim ; Khasia hills.
238. *Cœlogyne ovalis Lindl.*  
Distrib. North-Western Himalaya ; Sikkim ; Khasia hills.
239. *Cœlogyne elata Lindl.*  
Distrib. North-Western Himalaya ; Nepal ; Sikkim ; Bhotan ; Assam ; Burmah.
240. *Cœlogyne maculata ? Lindl.*  
Distrib. Nepal ; Sikkim ; Bhotan ; Khasia hills.
241. *Pholidota imbricata Lindl.* (No. 229).  
Fort Lungleh.  
Distrib. Himalaya ; Assam ; Burmah ; Andamans.
242. *Pholidota advena ? Reichb. f.*  
Distrib. Burmah.
243. *Pholidota Convallariæ Hook.f.* (No. 195).  
Fort Lungleh.  
Distrib. Khasia hills ; Naga hills ; Burmah.
244. *Pholidota rubra Lindl.*  
Distrib. Sikkim ; Khasia hills ; Kachin hills ; Upper Burma.
245. *Cymbidium lancifolium Hook.*  
Distrib. Nepal ; Sikkim ; Mishmi hills ; Khasia hills ; Indo-China, Japan ; Malaya.
246. *Cymbidium pendulum Swartz.*  
Distrib. Sikkim ; Bengal ; Assam ; Burmah ; Andamans ; Southern India ; Malaya.
247. *Phalænopsis Cornu cervi, Par. and Reichb. f.*  
Distrib. Burmah ; Malaya.
248. *Aerides Fieldingii Lodd.*  
Distrib. Sikkim ; Assam ; Kachin hills.
249. *Aerides odoratum Lour.*  
Distrib. Nepal ; Sikkim ; Khasia hills ; Silhet ; Chittagong ; Burmah ; South India ; Indo-China ; China ; Malaya.
250. *Renanthera Inschootiana Rolfe* (No. 230).  
Fort Lungleh.  
Distrib. Assam.

251. *Vanda teres* *Lindl.*  
Distrib. Bengal; Assam; Burmah; Andamans.
252. *Vanda cœrulea* *Griff.*  
Distrib. Khasia and Jyntea hills.
253. *Saccolabium papillosum* *Lindl.*  
Distrib. Eastern Himalaya; Assam; Lower Bengal; Burmah.
254. *Sarcanthus appendiculatus*. *Hook. f.*  
Distrib. Sikkim; Assam; Burmah.
255. *Cleisostoma bicuspidatum*. *Hook. f.*  
Distrib. Sikkim; Khasia; Tenasserim.
256. *Onithochilus fuscus*. *Wall.*  
Distrib. Sikkim; Bhotan; Khasia; Assam; Kachin hills;  
Burmah.
257. *Cypripedium villosum*. *Lindl.* var. *Boxalli.*  
Distrib. Shan hills; Kachin hills; Moulmein.

#### LXIV.—SCITAMINEÆ.

258. *Hemiorchis burmanica* *Kurz.* (No. 207).  
In flower. Between Ridge Camp and Lungsins. Alt. 2,000  
feet.  
Distrib. Khasia hills; Burmah.
- 
259. *Hedychium villosum* *Wall.* (No. 120).  
In flower. Fort Lungleh.  
Distrib. Silhet; Assam; Khasia hills; Miki hills; Naga hills;  
Manipur; Burmah.
260. *Curcuma zedoaria* *Roscoe* (No. 206).  
In flower. Between Ridge Camp and Lungsins. Alt. 2,000  
feet.  
Distrib. Bengal; Khasia; Assam; Chittagong; South and  
Central India; Malaya.
261. *Amomum dealbatum* *Roxb.* (No. 173).  
In flower. Fifteen miles South-East of Lungleh. Alt. 3,000  
feet.  
Distrib. Sikkim; Bengal; Khasia hills; Silhet; Naga hills;  
Assam; Chittagong; Burmah.
262. *Alpinia malaccensis* *Roscoe* (No. 115).  
In flower. Fort Lungleh.  
Distrib. Sikkim; Khasia hills; Assam; Chittagong; Bur-  
mah; South India; Malaya.



## LXV.—AMARYLLIDÆ.

- 263.
- Curculigo recurvata Dryand.*
- (No. 218).

In flower. Fort Lungleh.

Distrib. Nepal; Sikkim; Bengal; Assam; Chittagong; Burmah; Ceylon; Malaya; China; Australia.

## LXVI.—DIOSCOREACEÆ.

- 264.
- Dioscorea glabra Roxb.*
- (No. 252).

In fruit. Demagiri. Alt. 500 feet.

Distrib. North-West Himalaya; Nepal; Sikkim; Bengal; Burmah; Malaya; South India.

- 265.
- Dioscorea bulbifera Linn.*
- (No.—).

Grown from a tuber gathered near Fort Lungleh.

## LXVII.—LILIACEÆ.

- 266.
- Smilax lanceæfolia Roxb.*
- (No. 45).

In young fruit. Fort Lungleh.

Distrib. Sikkim; Khasia hills; Naga hills; Kachin hills; Manipur; Burmah.

- 267.
- Smilax Roxburghiana Wall.*
- (No. 149).

In fruit. Fifteen miles South-East of Lungleh. Alt. 3,000 feet.

Distrib. North-West Himalaya; Sikkim; Silhet; Cachar; Khasia hills; Kachin hills.

- 268.
- Dracæna ensifolia Wall.*
- (No. 144).

In flower. Fifteen miles South-East of Lungleh. Alt. 3,000 feet.

Distrib. Bhotan; Duphla hills; Silhet; Assam; Khasia hills; Naga hills; Kachin hills; Burmah.

- 269.
- Dracæna terniflora Roxb.*
- (No. 263).

In flower. Between Ridge Camp and Lungsin. Alt. 2,000 feet.

Distrib. Silhet; Cachar; Khasia hills; Manipur; Chittagong; South India.

## LXVIII.—COMMELINACEÆ.

- 270.
- Commelina nudiflora Linn.*
- (No. 264).

In flower. Between Linchong and Demagiri. Alt. 500=1,000 feet.

Distrib. Cosmopolitan in the tropics.

## LXIX.—PALMEÆ.

271. *Pinanga gracilis* Bl. (Nos. 117 and 118).  
In fruit. Fort Lungleh.  
Distrib. Sikkim; Bhotan; Khasia hills; Assam; Chittagong;  
Burmah.
272. *Caryota urens* Roxb. (No. 56).  
In leaf only. Fort Lungleh.  
Distrib. Throughout the hotter parts of Asia.
273. *Licuala peltata* Roxb. (No. 262).  
In flower. Fort Lungleh.  
Distrib. Sikkim; Khasia; Assam; Silhet; Burmah;  
Andamans.
274. *Calamus tenuis* Roxb. (No. 261).  
In leaf only. Fort Lungleh.  
Distrib. Tropical Himalaya; Bengal; Assam; Silhet; Chittagong;  
Burmah; Indo-China.

## LXX.—AROIDEÆ.

275. *Steudnera* sp. (No. 267).  
In flower. Between Ridge Camp and Lungsin. Alt. 1,000  
feet.
276. *Alocasia fallax* Schott (No. 50).  
In flower. Fort Lungleh.  
Distrib. Sikkim; Khasia hills; Burmah.
277. *Rhaphidophora calophyllum* Schott (No. 15).  
In flower. Fort Lungleh.  
Distrib. Sikkim; Khasia hills; Burmah.
278. *Rhaphidophora Hookeri* Schott (No. 67).  
In flower. Fort Lungleh.  
Distrib. Sikkim; Duphla hills; Khasia hills; Garo hills;  
Chittagong; Manipur; Upper Burmah.
279. *Rhaphidophora glauca* Schott (No. 266).  
In flower. Fort Lungleh.  
Distrib. Nepal; Sikkim; Bhotan; Duphla hills; Khasia hills;  
Naga hills; Manipur.
280. *Rhaphidophora decursiva* Schott (No. 68).  
In flower. Fort Lungleh.  
Distrib. Sikkim; Khasia hills; Upper Burmah; South India;  
Ceylon.

281. *Pothos scandens* *Linn.* (No. 265).  
In flower. Helio hills, Lungleh. Alt. 3,700 feet.  
Distrib. India; Indo China; Malaya; China.
282. *Pothos Cathcarti* *Schott* (No. 83).  
In flower. Fort Lungleh.  
Distrib. Nepal; Sikkim; Khasia hills; Naga hills; Assam;  
Kachin hills; Burmah,

## LXXI.—CYPERACEÆ.

283. *Kyllinga monocephala* *Rottb.* (No. 278).  
Between Lungleh and Ridge Camp. Alt. 3,000 feet.  
Distrib. Throughout India and the Old World tropics.
284. *Cyperus diffusus* *Vahl.* (No. 167).  
Fifteen miles South-East of Lungleh. Alt. 3,000 feet.  
Distrib. Throughout the tropics.
285. *Scleria sumatrensis* *Retz.* (No. —).  
Between Ridge Camp and Lungsins. Alt. 2,000-3,000 feet.  
Distrib. Bengal; Chittagong hill tracts; South India;  
Ceylon; Malaya; Nicobars; Java.

## LXXII.—GRAMINEÆ.

The following species are only those which have been as yet worked out from the collection, and do not represent it completely:—

286. *Panicum sarmentosum* *Roxb.* (No. 166).  
Fifteen miles South-East of Lungleh. Alt. 3,000 feet.  
Distrib. Assam; Silhet; Cachar; Khasia; Chittagong;  
Burmah; Indo-China; China.
287. *Panicum plicatum* *Lamk.* (No. 279).  
Between Lungleh and Ridge Camp. Alt. 3,000 feet.  
Distrib. North-Western Himalaya; Sikkim; Shan hills;  
South India; Ceylon; Malaya; China.
288. *Panicum pilipes* *Nees. and Arnott.* (No. 133).  
Fifteen miles South-East of Lungleh. Alt. 3,000 feet.  
Distrib. Sikkim Terai; Khasia hills; Burmah; Central and  
South India; Ceylon; Nicobars; Malaya; Indo-China;  
Madagascar; Australia.

289. *Thysanolaena agrostis* *Nees*. (No. 281).  
Fifteen miles South-East of Lungleh. Alt. 3,000 feet.  
Distrib. North-Western Himalaya; Sikkim; Khasia hills;  
Behar; South India; Burmah; Nicobars; Malaya.
290. *Imperata arundinacea* *Cyrrill*. (No. 208).  
Between Ridge Camp and Lungsins. Alt. 2,500 feet.  
Distrib. Cosmopolitan in the tropics.
291. *Pogonatherum crinitum* *Trin.* (No. 280).  
Between Ridge Camp and Lungsins. Alt. 2,500 feet.  
Distrib. Throughout India and Malaya; China; New  
Hebrides.

## LXXIII.—LYCOPODIACEÆ.

292. *Lycopodium setaceum* *Ham.*  
Fort Lungleh.  
Distrib. Himalayas; Nilgherries; Ceylon; Borneo.

## LXXIV.—SELAGINELLACEÆ.

293. *Selaginella caulescens* *Spreng.*  
Between Ridge Camp and Lungsins. Alt. 2,000 feet.  
Distrib. India; Ceylon; Indo-China; Malaya; China;  
Japan; Philippines; New Guinea.
294. *Selaginella Wallichii* *Spreng.*  
Between Ridge Camp and Lungsins. Alt. 2,000 feet.  
Distrib. Eastern Himalaya; Malaya; Philippines; New  
Guinea.

## LXXV.—FILICES.

295. *Davallia polypodioides* *Don.* var. *strigosa* of C. B. Clarke's  
Ferns of Northern India.  
Fort Lungleh.  
Distrib. North-West Himalaya; Nepal; Sikkim; Khasia;  
Chittagong; Assam; South India; Malaya; China; Japan;  
Polynesia; Tropical America.
296. *Onychium auratum* *Kaulf.*  
Fort Lungleh.  
Distrib. Nepal; Sikkim; Assam; Chittagong; Malaya.
297. *Pteris quadriaurita* *Retz.*  
Fort Lungleh.  
Distrib. Punjab; Assam; Chittagong; South and West  
India; Ceylon; Malaya.

298. *Pteris biaurita* *Linn.*  
Fort Lungleh.  
Distrib. North-West Himalaya; Sikkim; Khasia; South and West India; Ceylon; Malaya; China; Tropical Africa and America.
299. *Blechnum orientale* *Linn.*  
Fort Lungleh.  
Distrib. Nepal; Sikkim; Khasia hills; Chittagong; South India; Ceylon; Malaya; China; Polynesia; Australia.
300. *Asplenium Nidus* *Linn.*  
Fort Lungleh.  
Distrib. Nepal; Sikkim; Assam; Chittagong; South India; Ceylon; Malaya; Polynesia.
301. *Asplenium bantamense* *Baker.*  
Fifteen miles.  
South-East of Lungleh. Alt. 3,000 feet.  
Distrib. Khasia; Cachar; Chittagong; South India; Malaya; China.
302. *Asplenium sylvaticum* *Presl.*  
Fifteen miles South-East of Lungleh. Alt. 3,000 feet.  
Distrib. Burmah; Malaya; South India; Ceylon; Mauritius.
303. *Asplenium multicaudatum* *Wall.*  
Fort Lungleh.  
Distrib. Nepal; Sikkim; Bhotan; Khasia; Chittagong.
304. *Didymochlæna lunulata* *Desv.*  
Fort Lungleh.  
Distrib. Assam; Burmah; Malaya. The discovery of this fern goes to show that the doubt thrown upon the authenticity of Jenkin's Assam specimens in the Calcutta Herbarium, is not well founded.
305. *Nephrodium glandulosum* *J. Sm.*  
Fort Lungleh.  
Distrib. North-Western Himalaya; Assam; Chittagong; Burmah; Malaya; Philippines.
306. *Nephrodium molle* *Desv.*  
Fort Lungleh.  
Distrib. Himalaya; Chittagong; Burmah; Malaya; South and West India; Africa; South America; West Indies; Australia.

307. *Nephrodium parasiticum*, *C. B. Clarke*.  
Fort Lungleh.  
Distrib. Throughout India.
308. *Nephrodium vastum* *Baker*.  
Between Lungleh and Tuichong. Alt. 2,000-3,000 feet.  
Distrib. East Bengal; Mishmi; Khasia; Chittagong; Burmah; Malaya.
309. *Polypodium urophyllum* *Wall*.  
Fifteen miles South-East of Lungleh. Alt. 3,000 feet.  
Distrib. North-Western Himalaya; Sikkim; Bhotan; Chittagong; South India; Ceylon; Malaya; North Australia; Polynesia.
310. *Polypodium multilineatum* *Wall*.  
Fifteen miles South-East of Lungleh. Alt. 3,000 feet.  
Distrib. North-Western Himalaya; Sikkim; Chittagong; South India; Malaya.
311. *Polypodium Heteractis* *Mett*.  
Helio hill, Lungleh. Alt. 3,700 feet.  
Distrib. Sikkim; Bhotan; Khasia.
312. *Polypodium quercifolium* *Linn*.  
Fort Lungleh.  
Distrib. Throughout India; Malaya; South China; Australia.
313. *Polypodium normale* *Don*.  
Fifteen miles South-East of Lungleh. Alt. 3,000 feet.  
Distrib. Nepal; Sikkim; Bhotan; Khasia hills.
314. *Polypodium hemionitideum* *Wall*.  
Fort Lungleh.  
Distrib. Nepal; Sikkim; Bhotan; Khasia; Chittagong; South India; Malaya; China.
315. *Acrostichum virens* *Wall*.  
Fort Lungleh.  
Distrib. Chittagong hill tracts.
316. *Lygodium pinnatifidum* *Sw*.  
Fort Lungleh.  
Distrib. North-Western Himalaya; Nepal; Sikkim; Silhet; Khasia hills; Assam; Kachin hills; Chittagong and Burmah; South and Western India; Andamans; Malaya.
317. *Angiopteris evecta* *Hoffm*.  
Fort Lungleh.  
Distrib. Nepal; Sikkim; Bhotan; Chittagong; South India; Ceylon; Malaya; Australia; Madagascar.

The following table gives a synoptic view of the systematic character of the collection :—

Phanerogams . .			72		215		291
Dicotyledons . .		62			171		208
Polypetalæ . .		33		73		87	
Thalamifloræ . .	13		21			22	
Discifloræ . .	8		19			24	
Calycifloræ . .	12		33			41	
Gamopetalæ . .		9		63			78
Incompletæ . .		10		35			43
Monocotyledons . .			10		44		83
Cryptogams . .			3		13		26
TOTALS . Nat.	orders		75	Genera	228	Species	317

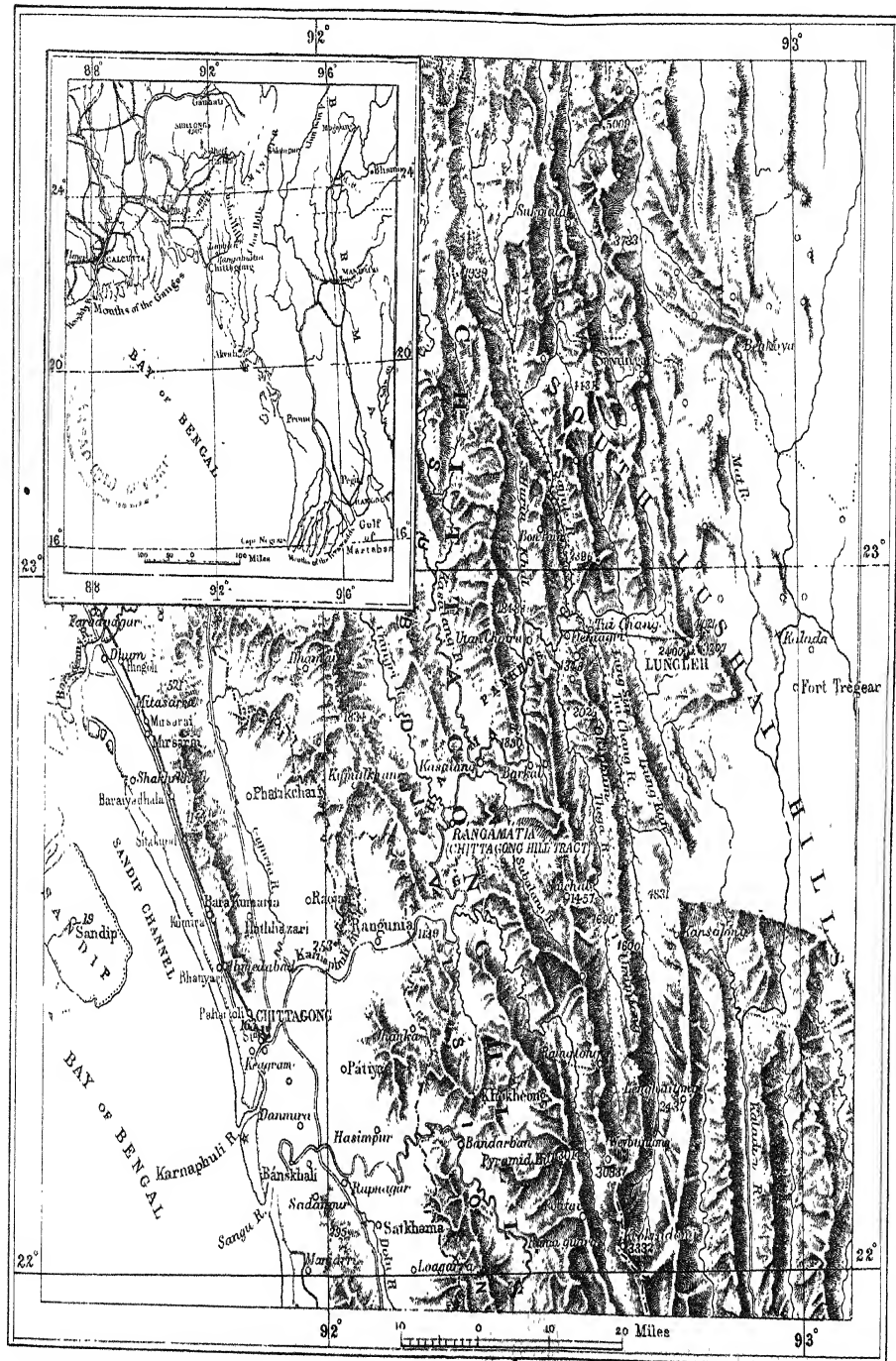
Amongst the Phanerogams the Natural order Orchidaceæ comes first with 49 species, next Filices with 23 species, Leguminosæ with 18 species, Urticacæ with 15 species, Rubaceæ with 14, Euphorbiaceæ with 13 species, Acanthaceæ with 11 species, Compositæ with 10 species. Of the remainder there are one order with 8 species, one with 7 species, ten with 6 species, three with 5 species, nine with 4 species, ten with 3 species, thirteen with 2 species, twenty-eight with 1 species.





# Route Map of Botanical Tour in the South Lushai Hills

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Bag No 56, 112, Bot. S. India—Mar 11—1910.

Route shown thus

Photo, S. I. O. Calcutta.



